1. (Currently Amended) A method for detecting changes in three-dimensional shape, said method comprising the steps of:

a) collecting a plurality of imagery of a scene at different points in time;

b) using three-dimensional reconstruction processes to create three-dimensional models of said scene, said three-dimensional models comprising coordinates, said coordinates having elevations; and

c) comparing said three-dimensional models, said comparing comprising:

c1) computing a score, said score being an appraisal of the confidence of the accuracy of said three-dimensional model;

c2) collecting statistics on the variation of elevations for said coordinate as a function of said score; and

c3) comparing said three-dimensional models derived at different points in time by determining which changes are statistically significantly different.

2. (Currently Amended) The method as recited in Claim 1 wherein step c) further comprises the step of:

c1) c4) comparing the mean or median elevation for changes of said coordinate of in said three-dimensional models.

3. (Cancelled)

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4. (Currently Amended) A computer-readable medium having stored thereon instructions for causing a computer to implement a process for detecting changes in three-dimensional shape to perform the steps of:

a) collecting a plurality of imagery of a scene at different points in time;

b) using three-dimensional reconstruction processes to create three-dimensional models of said scene, said three-dimensional models comprising coordinates, said coordinates having elevations; and

c) comparing said three-dimensional models, said comparing comprising:

c1) computing a score, said score being an appraisal of the confidence of the accuracy of said three-dimensional model;

c2) collecting statistics on the variation of elevations for said coordinate as a function of said score; and

c3) comparing said three-dimensional models derived at different points in time by determining which changes are statistically significantly different.

5. (Currently Amended) The computer-readable medium of Claim 4 wherein said instructions therein causes a computer to perform the step of:

c4) comparing the mean or median elevation for changes of said coordinate of in said three-dimensional models.

6. (Cancelled)

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7. (Currently Amended) An computer system comprising:

a bus;

a processor coupled to said bus; and

a computer-readable memory unit coupled to said bus;

said processor for performing a method for detecting changes in three-dimensional shape, said method comprising the steps of:

a) collecting a plurality of imagery of a scene at different points in time;

b) using three-dimensional reconstruction processes to create three-dimensional models of said scene, said three-dimensional models comprising coordinates, said coordinates having elevations; and

c) comparing said three-dimensional models, said comparing comprising:

c1) computing a score, said score being an appraisal of the confidence of the accuracy of said three-dimensional model;

c2) collecting statistics on the variation of elevations for said coordinate as a function of said score; and

c3) comparing said three-dimensional models derived at different points in time by determining which changes are statistically significantly different.

8. (Currently Amended) The computer system of Claim 7 wherein said processor performs said method for detecting changes in three-dimensional shape, further comprising the step of:

~~c4)~~ comparing the mean or median elevation <u>for changes</u> ~~of said coordinate of~~ <u>in</u> said three-dimensional models.

9. (Cancelled)